## **AMENDMENTS TO THE SPECIFICATION**

## On page 1, after the title, insert the following paragraph:

## -- CROSS REFERENCE TO RELATED APPLICATIONS

The present application is a continuation of U.S. application no. 10/422,849, filed on April 25, 2003, which is a continuation of U.S. application no. 09/939,655, filed on August 28, 2001 (now U.S. Patent No. 6,577,525, issued on June 10, 2003), the disclosures of which are each herewith incorporated by reference in their entirety.--

Please rewrite paragraph [0010] beginning on page 5, as follows:

[0010] The reference voltage generating circuit 115 includes a first 202 and second 204 244 regulating circuit each associated with a respective reference resistance element 108, 110. These regulating circuits respectively hold the voltage across reference resistors elements 108 and 110 at VA in the manner described above with reference to FIG. 2. The resistance elements Ro, R1 have respective known resistance values corresponding to one of the logic states of a memory element and the other corresponding to the other possible logic state. The reference voltage generating circuit 115 also includes capacitors C1 and C0 respectively associated with the reference resistance elements Ro and R1. Each of the capacitors C1 and C0 has one lower terminal grounded and the other upper terminal connectable to a common voltage line 132 through a respective switch element 134, 136. The switch elements 134, 136 are configured to connect the upper terminals of the capacitors C1, C0 to either a source of voltage VA or to the common voltage line 132. The common voltage line 132 is connected to the reference voltage input 113 of comparator 304.

## Please rewrite paragraph [0011] as follows:

[0011] As noted, the comparator 304 also has a voltage input 116. This is connected through another switch element 206 to an upper terminal of a sensing capacitor C<sub>sense</sub>, the lower terminal of which is grounded. Switch element 206 is adapted to connect the upper terminal of comparator C<sub>sense</sub> to either a source of voltage V<sub>A</sub> or to the input 116 of comparator 304. The input 116 is also connected to the upper (drain) terminal of transistor 240 which has it-it's source terminal connected to the resistance element 204, the resistance of which is to be measured.